

# TECHtalk

A TECHNICAL PRODUCT PUBLICATION

## IQ plus® 710 Version 2.0

### *New Board, New Software, Advanced Capabilities*

The Version 2.0 IQ plus 710 is now available, featuring a new CPU board that incorporates a software-configurable, onboard analog filter and new software that sharply enhances the advanced functions of the 710.

Version 2.0 software for the IQ plus 710 supports up to 20 setpoints, including all setpoint kinds available in the IQ plus 800/810 indicators. And, the redesigned macro function in Version 2.0 now allows a macro to start other macros, even restart itself, providing much greater capability for manual filling applications and repetitive processes.

Note that the software enhancements in Version 2.0 aren't limited to advanced indicator functions. There are also some simple new features—like allowing the scale to be zeroed with a tare in the system, and increasing the truck mode tare storage register up to 300—meant to make the IQ plus 710 an easier to use, more capable indicator.

As an additional benefit, for a limited time our Revolution™ configuration software now ships with the indicator. The current release of Revolution, Version 2.41, provides full support for the Version 2.0 710.

The following lists provide a summary of the principal software changes made between Version 1.4 and Version 2.0 of the IQ plus 710.

#### **Analog and Digital Filtering**

Configurable analog filter added with available settings of OFF, 2HZ, 8HZ.

Digital filtering changed from one to two filters (DIGFLT1 and DIGFLT2). New RATTRAP parameter enables RATTLETRAP® algorithm for both digital filters.

#### **Serial Communications and Printing**

PORT parameters removed from the SERIAL menu.

EDP port AB-RIO parameter name changed to BUS; BUS parameter added to printer port.

Printer port now supports duplex RS-232 communications; can be used to send and receive EDP commands.

Streamed weight information now uses the following units designators: lb=L; Kg=K; oz=O; gram=G; ton, metric ton, and long ton=T; grain, troy ounce, troy pound, and none=space.

Print command latches for three seconds: A print command issued while the scale is in motion is now completed if the scale comes out of motion before the three seconds elapses.

CONSNUM (consecutive numbering) and UID (unit ID) parameters added to PROGRM menu.

#### **Zero and Tare Operations**

ZERO and TARE key functions have been changed to better reflect regulatory agency requirements. *The IQ plus 710 Installation Manual* provides a detailed description of these key functions for each of the regulatory modes.

Scale can now be zeroed (gross zero) with a tare remaining in the system. In OIML mode, the tare is cleared when the ZERO key is pressed.

Tare values restricted to six digits to avoid display overflow when tare weight is removed.

See the listings under "Truck Mode" for more tare-related changes.

#### **Truck Mode**

In truck mode, you can now clear individual tare values or the entire tare register.

The word TARE has been removed from TARE100 truck mode storage register printouts to prevent labeling of stored weights as tare weights.

Truck mode tare storage register increased to 300 IDs.

The truck mode storage register can now be called up by pressing the ID key.

Seven-character ID can now include any alphanumeric characters.

## Setpoints

The IQ plus 710 now supports up to 20 setpoints, including all setpoint kinds available for the IQ plus 800/810 indicators.

SETPNTS menu name changed to SETPTS.

SPNAMES parameter has been removed from SETPTS menu. A name can now be selected (for any setpoint kind) from a list of up to 60 prompts defined on the PROGRM menu, PROMPTS parameter.

All setpoint kinds now default to ACCESS=ON.

## Batching Operations

Setpoint name can be displayed while a batch is running.

PREACT and BANDVAL values can be entered at the front panel.

When a batch is running, the ZERO and TARE keys are locked out and any setpoint value changes are ignored.

When a batch is paused, all digital outputs are set off except those associated with PAUSE setpoints and all continuous setpoint kinds.

When a batch is paused in the middle of a setpoint, the batch resumes at the beginning of the setpoint when it is restarted.

## Digital Inputs

Digital inputs 1 and 2 have been changed to use the same default values as the IQ plus 800/810: DIGIN1=BATSTART; DIGIN2=BATRUN.

Digital input selections now include CLRTAR (clear tare), CLRACC (clear accumulator), GROSS, NET, PRIM (primary units), SEC (secondary units), TIME, and DATE pseudo key functions.

## Macros

MACRO submenu inserted in PROGRM menu (MACRO1–MACRO4 now under the MACRO submenu).

F1–F4 values added to KEYPAD macro submenu, allowing macros to be looped or linked.

Pseudokey selections on the PSEUDO macro submenu now include CLRTAR (clear tare) and CLRACC (clear accumulator).

Wait for standstill (WAITSS) pause release capability added to PAUSREL macro submenu. WAITSS releases when the scale is stable within the specified motion band.

MOTION pause release function on PAUSREL submenu changed to release when motion is detected.

Free-running setpoint compare values expanded to 20 (COMPR1–COMPR20).

Pressing the escape key now stops any running macro; pressing a macro key overrides any running macro.

## EDP Commands

Except for those commands requiring numeric or text entry, entering any valid EDP command (while in setup mode) followed by an equal sign and question mark (<cmd>=? ) now lists possible values for the command.

KCLRVN serial command added for clearing nonvolatile RAM.

KCLRTAR serial command added for clearing tare values.

KLOCK and KUNLOCK serial commands added for locking and unlocking individual front panel keys.

Configuration changes made using the EDP commands now take effect only when the indicator leaves setup mode.

## Error Messages and Test Menu

The numeric value returned by the XE command now represents only the error conditions present, if any.

ECHO R (echo received characters) and XMT U (transmit "u" characters) functions have been removed from the TEST menu.

## Compatibility

Version 2.0 software cannot be run on Version 1 hardware. The analog filter board used in Version 1 is not supported in Version 2.

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